

Application No. 10/085,103

IN THE TITLE:

Please amend the title to read as follows:

—A FLUOROPOLYMER COMPOSITE BLEND WITH HIGH IONIC
CONDUCTIVITY—.

IN THE ABSTRACT:

Please enter the following substitute Abstract of the Disclosure for that originally filed with this application:

ABSTRACT OF THE DISCLOSURE

A fluoropolymer blend with high ionic conductivity can be applied in electroactive polymer composite includes PVDF-g-SPS; PVDF; and hydrocarbon- or fluoro-elastomer. The obtained compound membrane has excellent properties, such as thermal stability, acid-alkali resistance, good mechanical performance, excellent flexibility, and capability for processing appropriate cross-link for further enhancing the mechanical performance for this membrane. PDVF-g-PS (styrene grafted PVDF), PVDF, and hydrocarbon, or fluoro-elastomer mixed well with specific properties and are dissolved in an aprotic solvent. The solution is then cast film on a substrate followed by sulfonation to yield the compound membrane.

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IN THE SPECIFICATION:

Please enter the attached Substitute Specification for that originally submitted with this application.